

L Number	Hits	Search Text	DB	Time stamp
1	64	(((514/85,86,89,92,94,95,99,110,113,114,118,120,124,125,126,130,134,132,135,137,138,141).CCLS.) ((562/8,10,11,15,16,23,24,25).CCLS.) ((558/80,81,83,178,179,190,193,194,195,199,215,216).CCLS.) ((544/243,337).CCLS.) ((546/21).CCLS.) ((548/111).CCLS.) ((549/6,216).CCLS.)) and (FBP? OR fructose) and phosphon\$	US-PGPUB	2004/8/25 13:54

Connecting via Winsock to STN

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1	Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	"Ask CAS" for self-help around the clock
NEWS	3	May 12 EXTEND option available in structure searching
NEWS	4	May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS	5	May 27 New UPM (Update Code Maximum) field for more efficient patent SDIs in Cplus
NEWS	6	May 27 Cplus super roles and document types searchable in REGISTRY
NEWS	7	Jun 28 Additional enzyme-catalyzed reactions added to CASREACT
NEWS	8	Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS	9	Jul 12 BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS	10	Jul 30 BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS	11	AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS	12	AUG 02 Cplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS	13	AUG 02 STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS	14	AUG 02 The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS	15	AUG 04 Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004

NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004

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* * * * * STN Columbus * * * * *

09/801,933

Thomas McKenzie

FILE 'HOME' ENTERED AT 18:27:35 ON 25 AUG 2004

=> file reg

FILE 'REGISTRY' ENTERED AT 18:27:44 ON 25 AUG 2004

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STRUCTURE FILE UPDATES: 24 AUG 2004 HIGHEST RN 732209-96-0

DICTIONARY FILE UPDATES: 24 AUG 2004 HIGHEST RN 732209-96-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

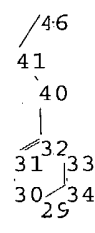
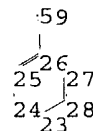
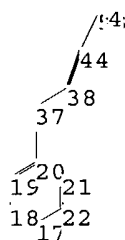
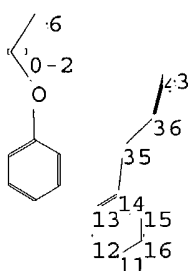
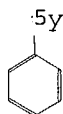
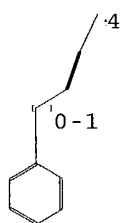
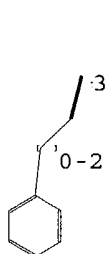
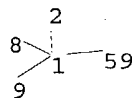
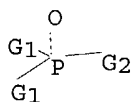
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\dummy.str

c¹
r²

c¹
r²



chain nodes :

2 35 36 37 38 39 40 41 42 43 44 53 59

ring nodes :

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
32 33 34

ring/chain nodes :

1 3 4 8 9

chain bonds :

1-2 1-59 14-35 20-37 26-39 32-40 35-36 36-43 37-38 38-44 40-41 41-42
44-53

ring/chain bonds :

1-8 1-9

ring bonds :

11-12 11-16 12-13 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22
23-24 23-28 24-25 25-26 26-27 27-28 29-30 29-34 30-31 31-32 32-33 33-34

exact/norm bonds :

1-2 1-8 1-9 1-59 26-39 32-40 40-41

exact bonds :

14-35 20-37 35-36 36-43 37-38 38-44 41-42 44-53

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22
23-24 23-28 24-25 25-26 26-27 27-28 29-30 29-34 30-31 31-32 32-33 33-34

isolated ring systems :

containing 11 : 17 : 23 : 29 :

09/801,933

Thomas McKenzie

G1:[*1],[*2]

G2:[*3],[*4],[*5],[*6]

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 8:CLASS 9:CLASS 11:Atom 12:Atom 13:Atom
14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom
23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom
32:Atom 33:Atom 34:Atom 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:Atom
40:CLASS 41:CLASS 42:CLASS 43:CLASS 44:CLASS 53:CLASS 59:CLASS

Generic attributes :

39:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

Element Count :

Node 39: Limited

C,C3-5

O,O0-1

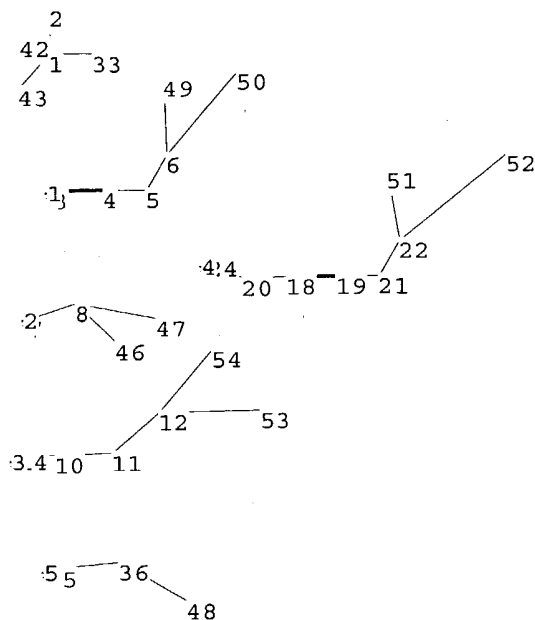
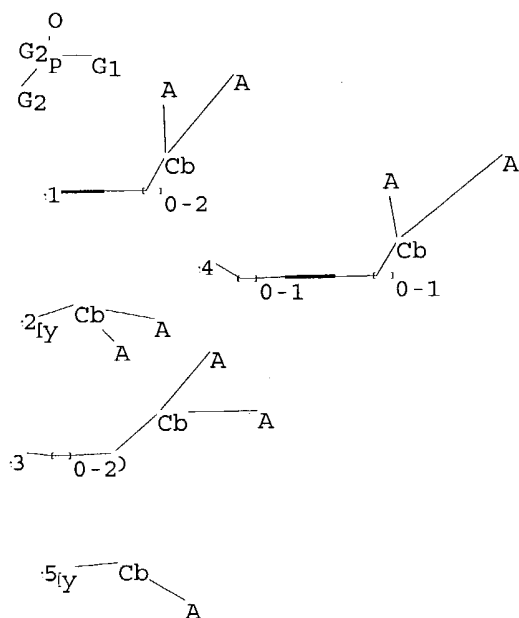
N,N0-2

S,S0-1

L1 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\09801933.str

C⁶
N⁷C⁶
N⁷

chain nodes :

2 3 4 5 6 7 8 10 11 12 14 18 19 20 21 22 24 33 35 36 46 47 48
49 50 51 52 53 54

ring nodes :

1

ring/chain nodes :

38 39 42 43

chain bonds :

1-2 1-33 3-4 4-5 5-6 6-49 6-50 7-8 8-46 8-47 10-11 10-14 11-12 12-53
12-54 18-19 18-20 19-21 20-24 21-22 22-51 22-52 35-36 36-48

ring/chain bonds :

1-42 1-43

exact/norm bonds :

1-2 1-33 1-42 1-43 6-49 6-50 7-8 8-46 8-47 10-11 12-53 12-54 22-51
22-52 35-36 36-48

exact bonds :

3-4 4-5 5-6 10-14 11-12 18-19 18-20 19-21 20-24 21-22

G1: [*1], [*2], [*3], [*4], [*5]

09/801,933

Thomas McKenzie

G2:[*6],[*7]

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:Atom 7:Atom 8:Atom 10:CLASS
11:CLASS 12:Atom 14:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:Atom
24:CLASS 33:CLASS 35:Atom 36:Atom 38:Atom 39:Atom 42:CLASS 43:CLASS
46:CLASS 47:CLASS 48:CLASS 49:CLASS 50:CLASS 51:CLASS 52:CLASS 53:CLASS
54:CLASS

Generic attributes :

6:

Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

7:

Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

8:

Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

12:

Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

22:

Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

35:

Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Number of Hetero Atoms : less than 2
Type of Ring System : Monocyclic

36:

Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

Element Count :

Node 7: Limited

C,C3-5

O,O1

S,S1

N,N0-2

Node 35: Limited

O,O1

L2 STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 18:28:36 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 16567 TO ITERATE

09/801,933

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6.0% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

14 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 323636 TO 339044
PROJECTED ANSWERS: 3725 TO 5551

L3 14 SEA SSS SAM L1

=> s 12

SAMPLE SEARCH INITIATED 18:28:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 34835 TO ITERATE

2.9% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 685557 TO 707843
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2

=> s 12 subset = 13 sample

SAMPLE SUBSET SEARCH INITIATED 18:29:06 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED - 14 TO ITERATE

100.0% PROCESSED 14 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

PROJECTIONS (WITHIN SPECIFIED SUBSET): ONLINE **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET): 56 TO 504
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET): 0 TO 0

L5 0 SEA SUB=L3 SSS SAM L2

=> s 11 full

FULL SEARCH INITIATED 18:29:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 330087 TO ITERATE

100.0% PROCESSED 330087 ITERATIONS
SEARCH TIME: 00.00.07

3470 ANSWERS

L6 3470 SEA SSS FUL L1

=> s 12 subset = 16 full

FULL SUBSET SEARCH INITIATED 18:29:44 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 3470 TO ITERATE

100.0% PROCESSED 3470 ITERATIONS
SEARCH TIME: 00.00.01

34 ANSWERS

L7 34 SEA SUB=L6 SSS FUL L2

=> file caplus caold; s 17

FILE 'CAPLUS' ENTERED AT 18:30:06 ON 25 AUG 2004
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L8 12 L7

=> file reg
FILE 'REGISTRY' ENTERED AT 18:30:31 ON 25 AUG 2004
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STRUCTURE FILE UPDATES: 24 AUG 2004 HIGHEST RN 732209-96-0
DICTIONARY FILE UPDATES: 24 AUG 2004 HIGHEST RN 732209-96-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

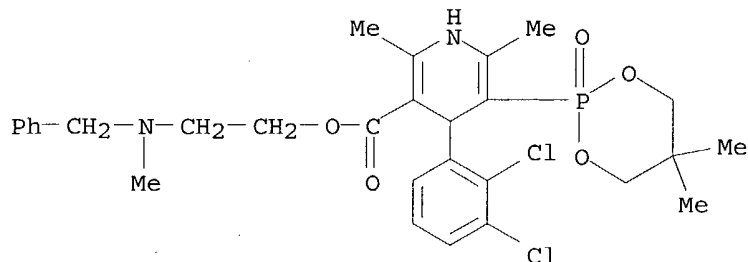
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d l7 1-34 ide cbib pi

L7 ANSWER 1 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN
RN 146345-52-0 REGISTRY
CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-
1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-,
2-[methyl(phenylmethyl)amino]ethyl ester, hydrochloride (9CI) (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.
CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-
dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-
[methyl(phenylmethyl)amino]ethyl ester, P-oxide, hydrochloride
MF C29 H35 Cl2 N2 O5 P . x Cl H
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAPLUS document type: Journal
RL.NP Roles from non-patents: RACT (Reactant or reagent)
CRN (102098-28-2)



●x HCl

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 118:124668 Synthesis of 1,4-dihydropyridine-5-phosphonates and their calcium-antagonistic and antihypertensive activities: novel calcium-antagonist 2-[benzyl(phenyl)amino]ethyl 5-(5,5-dimethyl-2-oxo-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3-pyridinecarboxylate hydrochloride ethanol (NZ-105) and its crystal structure. Sakoda, Ryozi; Kamikawaji, Yoshimasa; Seto, Kiyotomo (Cent. Res. Inst., Nissan Chem. Ind. Co., Ltd., Funabashi, 274, Japan). Chemical & Pharmaceutical Bulletin, 40(9), 2362-9 (English) 1992. CODEN: CPBTAL. ISSN: 0009-2363.

L7 ANSWER 2 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 131356-83-7 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(1,3-diethyl-2-oxido-1,3,2-diazaphospholidin-2-yl)-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Diazaphospholidine, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(1,3-diethyl-1,3,2-diazaphospholidin-2-yl)-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester, P-oxide

FS 3D CONCORD

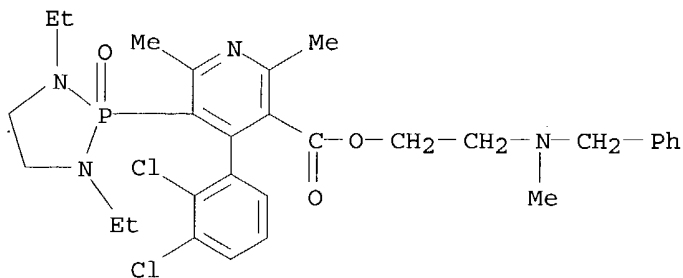
MF C30 H37 Cl2 N4 O3 P

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

DT.CA Cplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 114:30121 Drug effect-enhancing agent for antitumor drug.

Akiyama, Shinichi; Sakoda, Ryoza; Seto, Kiyotomo; Shudo, Norimasa (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 353692 A2 19900207, 40 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1989-114113 19890731. PRIORITY: JP 1988-193002 19880802; JP 1989-168545 19890630.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 353692	A2	19900207	EP 1989-114113	19890731
EP 353692	A3	19910508		
EP 353692	B1	19951004		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 02138221	A2	19900528	JP 1989-168549	19890630
JP 2850376	B2	19990127		
CA 1334752	A1	19950314	CA 1989-607026	19890731
EP 655455	A1	19950531	EP 1995-101310	19890731
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 128623	E	19951015	AT 1989-114113	19890731
US 5130303	A	19920714	US 1991-729904	19910715
US 5304550	A	19940419	US 1993-57902	19930507
US 5508403	A	19960416	US 1995-463511	19950605

L7 ANSWER 3 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 131332-80-4 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,6-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-(4-phenyl-1-piperidiny)ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,6-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-(4-phenyl-1-piperidiny)ethyl ester, P-oxide

FS 3D CONCORD

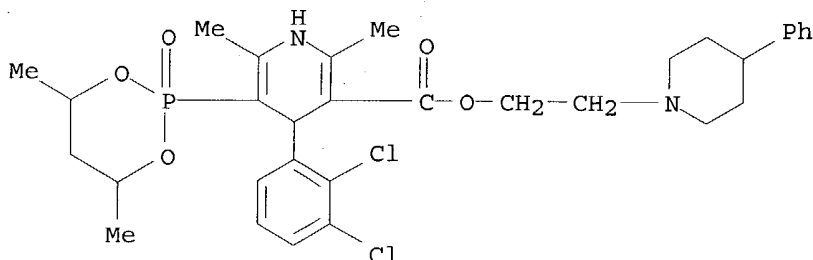
MF C32 H39 Cl2 N2 O5 P

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 114:30121 Drug effect-enhancing agent for antitumor drug.
 Akiyama, Shinichi; Sakoda, Ryojo; Seto, Kiyotomo; Shudo, Norimasa (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 353692 A2 19900207, 40 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1989-114113 19890731. PRIORITY: JP 1988-193002 19880802; JP 1989-168545 19890630.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 353692	A2	19900207	EP 1989-114113	19890731
EP 353692	A3	19910508		
EP 353692	B1	19951004		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 02138221	A2	19900528	JP 1989-168549	19890630
JP 2850376	B2	19990127		
CA 1334752	A1	19950314	CA 1989-607026	19890731
EP 655455	A1	19950531	EP 1995-101310	19890731
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 128623	E	19951015	AT 1989-114113	19890731
US 5130303	A	19920714	US 1991-729904	19910715
US 5304550	A	19940419	US 1993-57902	19930507
US 5508403	A	19960416	US 1995-463511	19950605

L7 ANSWER 4 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 126854-61-3 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-(4-phenylcyclohexylidene)ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-(4-phenylcyclohexylidene)ethyl ester, P-oxide

FS 3D CONCORD

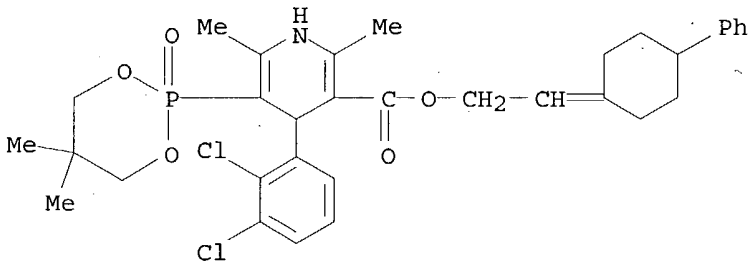
MF C33 H38 Cl2 N O5 P

SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 112:198803 5-(Alkylenedioxyphosphinyl)-2,6-dimethyl-4-phenyl-1,4-dihydropyridine-3-carboxylic acid esters as antihypertensives. Seto, Kyotomo; Sakota, Ryoze; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01275591 A2 19891106 Heisei, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1988-105175 19880427.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01275591	A2	19891106	JP 1988-105175	19880427

L7 ANSWER 5 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 113955-09-2 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-1,4-dihydro-2,6-dimethyl-5-(tetrahydro-3,4,6-trimethyl-2-oxido-2H-1,3,2-oxazaphosphorin-2-yl)-, 2-[methyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1,3,2-Oxazaphosphorine, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-1,4-dihydro-2,6-dimethyl-5-(tetrahydro-3,4,6-trimethyl-2H-1,3,2-oxazaphosphorin-2-yl)-, 2-[methyl(phenylmethyl)amino]ethyl ester, P-oxide

FS 3D CONCORD

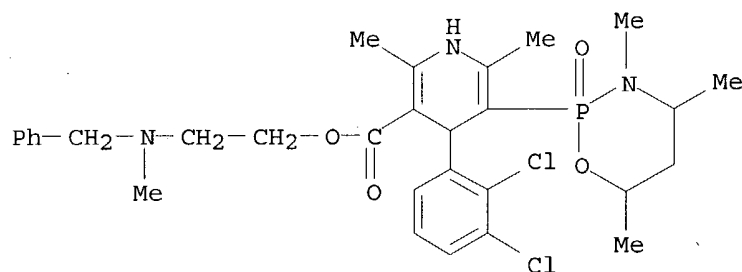
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SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 108:167687 Preparation of dihydropyridine-5-phosphonamidic acid derivatives for treatment of circulation disorders. Kamikawaji, Masumasa; Seto, Kyotomo; Sakota, Ryoze; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62195392 A2 19870828 Showa, 12 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-36402 19860220.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62195392	A2	19870828	JP 1986-36402	19860220
JP 06015553	B4	19940302		

L7 ANSWER 6 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 113955-06-9 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(3,5-dimethyl-2-oxido-1,3,2-oxazaphospholidin-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

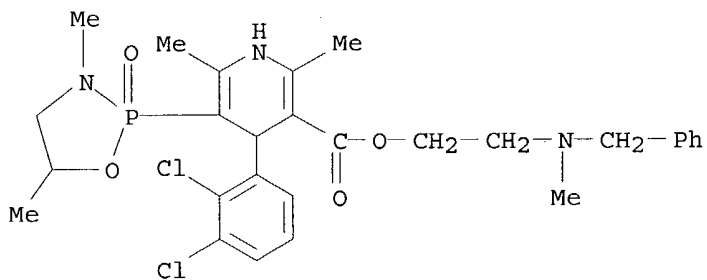
CN 1,3,2-Oxazaphospholidine, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(3,5-dimethyl-1,3,2-

09/801,933

Thomas McKenzie

oxazaphospholidin-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-
[methyl(phenylmethyl)amino]ethyl ester, P-oxide
FS 3D CONCORD
MF C28 H34 Cl2 N3 O4 P
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 108:167687 Preparation of dihydropyridine-5-phosphonamidic acid derivatives for treatment of circulation disorders. Kamikawaji, Masumasa; Seto, Kyotomo; Sakota, Ryoza; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62195392 A2 19870828 Showa, 12 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-36402 19860220.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62195392	A2	19870828	JP 1986-36402	19860220
	JP 06015553	B4	19940302		

L7 ANSWER 7 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111524-12-0 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorin-2-yl)-1,4-dihydro-2,6-dimethyl-, decyl ester (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorin-2-yl)-1,4-dihydro-2,6-dimethyl-, decyl ester, P-oxide

FS 3D CONCORD

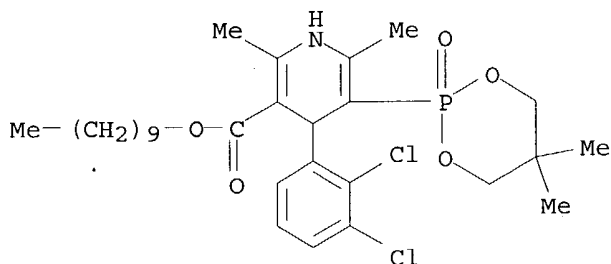
MF C29 H42 Cl2 N O5 P

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation)



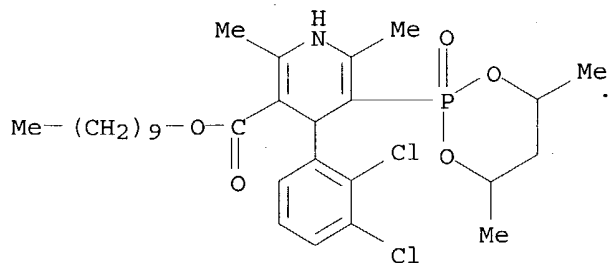
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1. REFERENCES IN FILE CA (1907 TO DATE)
1. REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237011 A process for the preparation of dihydropyridinephosphonates as therapeutics for circulatory disorders. Seto, Kyotomo; Sakota, Ryoza; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62169796 A2 19870725 Showa, 9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-12757 19860123.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62169796	A2	19870725	JP 1986-12757	19860123
	JP 06078349	B4	19941005		

L7 ANSWER 8 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN
RN 111495-24-0 REGISTRY
CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,6-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, decyl ester (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.
CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,6-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, decyl ester, P-oxide
FS 3D CONCORD
MF C29 H42 Cl2 N O5 P
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation)



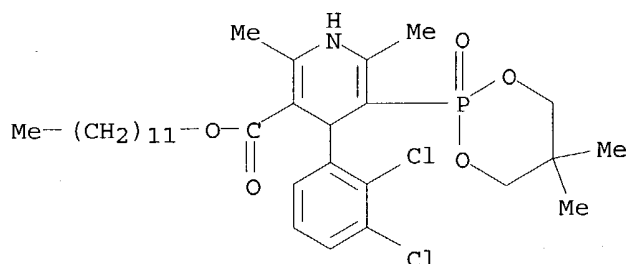
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237011 A process for the preparation of dihydropyridinephosphonates as therapeutics for circulatory disorders. Seto, Kyotomo; Sakota, Ryozyo; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62169796 A2 19870725 Showa, 9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-12757 19860123.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62169796	A2	19870725	JP 1986-12757	19860123
JP 06078349	B4	19941005		

L7 ANSWER 9 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN
RN 111495-11-5 REGISTRY
CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, dodecyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.
CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, dodecyl ester, P-oxide
FS 3D CONCORD
MF C31 H46 Cl2 N O5 P
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation)



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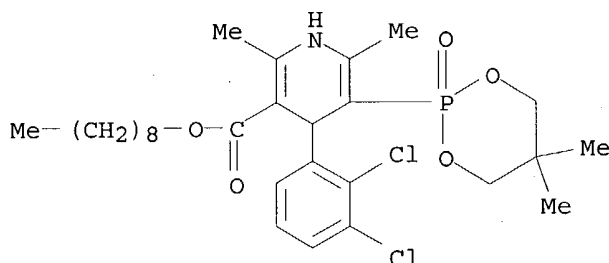
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237011 A process for the preparation of dihydropyridinephosphonates as therapeutics for circulatory disorders. Seto, Kyotomo; Sakota, Ryozyo; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62169796 A2 19870725 Showa, 9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-12757 19860123.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62169796	A2	19870725	JP 1986-12757	19860123
JP 06078349	B4	19941005		

L7 ANSWER 10 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111495-03-5 REGISTRY
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 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, nonyl ester, P-oxide
 FS 3D CONCORD
 MF C28 H40 Cl2 N O5 P
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Patent
 RL.P Roles from patents: PREP (Preparation)



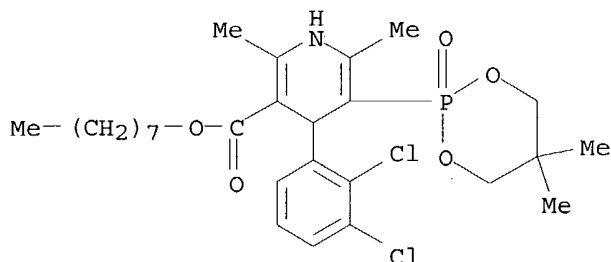
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237011 A process for the preparation of dihydropyridinephosphonates as therapeutics for circulatory disorders. Seto, Kyotomo; Sakota, Ryoza; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62169796 A2 19870725 Showa, 9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-12757 19860123.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62169796	A2	19870725	JP 1986-12757	19860123
JP 06078349	B4	19941005		

L7 ANSWER 11 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 111495-02-4 REGISTRY
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, octyl ester (9CI)
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, octyl ester, P-oxide
 FS 3D CONCORD
 MF C27 H38 Cl2 N O5 P
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Patent
 RL.P Roles from patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237011 A process for the preparation of dihydropyridinephosphonates as therapeutics for circulatory disorders. Seto, Kyotomo; Sakota, Ryoza; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62169796 A2 19870725 Showa, 9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1986-12757 19860123.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 62169796	A2	19870725	JP 1986-12757	19860123
JP 06078349	B4	19941005		

L7 ANSWER 12 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111011-73-5 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 1-methyl-2-[phenyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 1-methyl-2-[phenyl(phenylmethyl)amino]ethyl ester, P-oxide

FS 3D CONCORD

MF C35 H39 Cl2 N2 O5 P

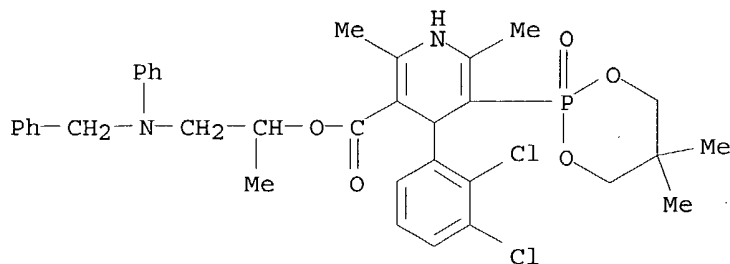
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SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 230944	A1	19870805	EP 1987-100602	19870119
EP 230944	B1	19900207		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 62169795	A2	19870725	JP 1986-11255	19860122
JP 06055751	B4	19940727		
US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116
AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
DD 276873	A5	19900314	DD 1987-299387	19870121
FI 8703503	A	19870812	FI 1987-3503	19870812
FI 85491	B	19920115		
FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814
DK 8704280	A	19870817	DK 1987-4280	19870817
DK 168821	B1	19940620		
NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 13 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111011-72-4 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[4-[bis(4-fluorophenyl)methyl]-1-piperazinyl]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[4-[bis(4-fluorophenyl)methyl]-1-piperazinyl]ethyl ester, P-oxide

FS 3D CONCORD

MF C38 H42 Cl2 F2 N3 O5 P

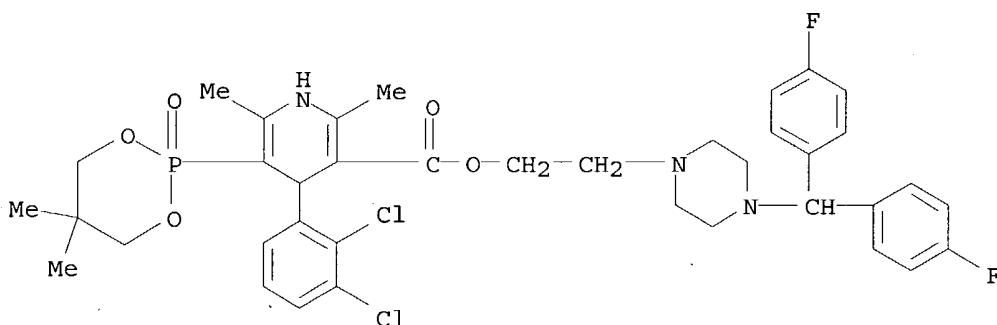
CI COM

SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 230944	A1	19870805	EP 1987-100602	19870119
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R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 62169795	A2	19870725	JP 1986-11255	19860122
JP 06055751	B4	19940727		
US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116
AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
DD 276873	A5	19900314	DD 1987-299387	19870121

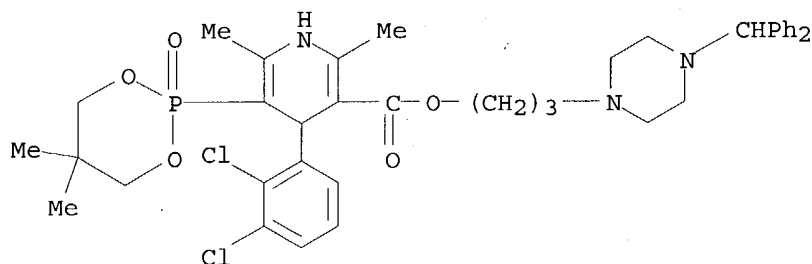
Thomas McKenzie

FI 8703503	A	19870812	FI 1987-3503	19870812
FI 85491	B	19920115		
FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814
DK 8704280	A	19870817	DK 1987-4280	19870817
DK 168821	B1	19940620		
NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

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L7 ANSWER 14 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN
RN 111011-71-3 REGISTRY
CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-
1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-,
3-[4-(diphenylmethyl)-1-piperazinyl]propyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.
CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-
dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 3-[4-(diphenylmethyl)-1-
piperazinyl]propyl ester, P-oxide
FS 3D CONCORD
MF C39 H46 Cl2 N3 O5 P
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation)

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 230944	A1	19870805	EP 1987-100602	19870119
	EP 230944	B1	19900207		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				

JP 62169795	A2	19870725	JP 1986-11255	19860122
JP 06055751	B4	19940727		
US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116
AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
DD 276873	A5	19900314	DD 1987-299387	19870121
FI 8703503	A	19870812	FI 1987-3503	19870812
FI 85491	B	19920115		
FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814
DK 8704280	A	19870817	DK 1987-4280	19870817
DK 168821	B1	19940620		
NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 15 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111011-70-2 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-(diphenylamino)ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-(diphenylamino)ethyl ester, P-oxide

FS 3D CONCORD

MF C33 H35 Cl2 N2 O5 P

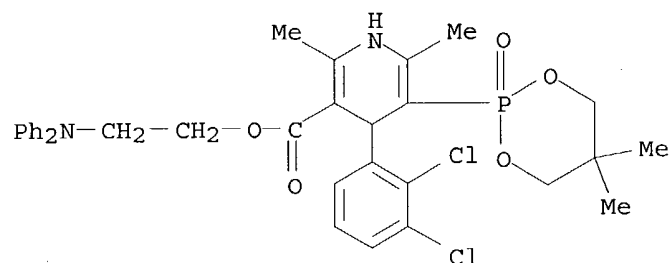
CI COM

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAPLUS document type: Patent

RL.P Roles from patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 230944	A1	19870805	EP 1987-100602	19870119
EP 230944	B1	19900207		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 62169795	A2	19870725	JP 1986-11255	19860122
JP 06055751	B4	19940727		
US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116
AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
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FI 8703503	A	19870812	FI 1987-3503	19870812
FI 85491	B	19920115		
FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814
DK 8704280	A	19870817	DK 1987-4280	19870817
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NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 16 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111011-68-8 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,6-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 1-methyl-2-[phenyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,6-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 1-methyl-2-[phenyl(phenylmethyl)amino]ethyl ester, P-oxide

FS 3D CONCORD

MF C35 H39 Cl2 N2 O5 P

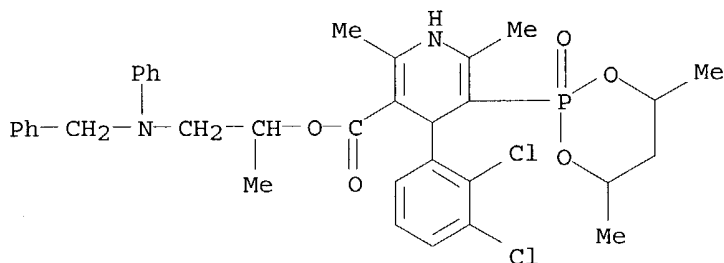
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SR CA

LC STN Files: CA, CAPLUS

DT.CA CAPLUS document type: Patent

RL.P Roles from patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 230944	A1	19870805	EP 1987-100602	19870119
EP 230944	B1	19900207		

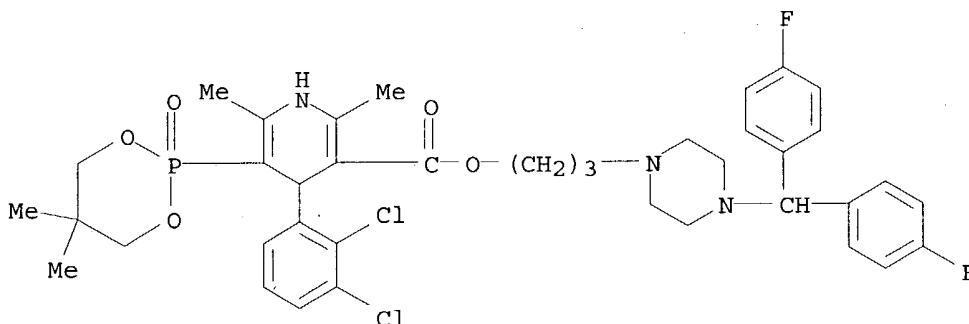
PI	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	EP 230944	A1	19870805	EP 1987-100602	19870119
	EP 230944	B1	19900207		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 62169795	A2	19870725	JP 1986-11255	19860122
	JP 06055751	B4	19940727		
	US 4885284	A	19891205	US 1986-851158	19860414
	CA 1304379	A1	19920630	CA 1986-507085	19860418
	CN 87100286	A	19880113	CN 1987-100286	19870114
	CN 1016063	B	19920401		
	AU 8767635	A1	19870723	AU 1987-67635	19870116
	AU 589485	B2	19891012		
	AT 50263	E	19900215	AT 1987-100602	19870119
	WO 8704439	A1	19870730	WO 1987-JP32	19870120
	W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
	ZA 8700403	A	19870930	ZA 1987-403	19870120
	HU 44570	A2	19880328	HU 1987-768	19870120
	HU 196605	B	19881228		
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	JP 06099458	B4	19941207		
	IL 81315	A1	19911121	IL 1987-81315	19870120
	DD 276873	A5	19900314	DD 1987-299387	19870121
	FI 8703503	A	19870812	FI 1987-3503	19870812
	FI 85491	B	19920115		
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	SU 1586519	A3	19900815	SU 1987-4203193	19870814
	DK 8704280	A	19870817	DK 1987-4280	19870817
	DK 168821	B1	19940620		

NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 17 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 111011-65-5 REGISTRY
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-,
 3-[4-[bis(4-fluorophenyl)methyl]-1-piperazinyl]propyl ester (9CI) (CA
 INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 3-[4-[bis(4-fluorophenyl)methyl]-1-piperazinyl]propyl ester, P-oxide
 FS 3D CONCORD
 MF C39 H44 Cl2 F2 N3 O5 P
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 230944	B1	19900207		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 62169795	A2	19870725	JP 1986-11255	19860122

JP 06055751	B4	19940727		
US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116
AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
DD 276873	A5	19900314	DD 1987-299387	19870121
FI 8703503	A	19870812	FI 1987-3503	19870812
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FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814
DK 8704280	A	19870817	DK 1987-4280	19870817
DK 168821	B1	19940620		
NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 18 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111011-64-4 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[4-(diphenylmethyl)-1-piperazinyl]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[4-(diphenylmethyl)-1-piperazinyl]ethyl ester, P-oxide

FS 3D CONCORD

MF C38 H44 Cl2 N3 O5 P

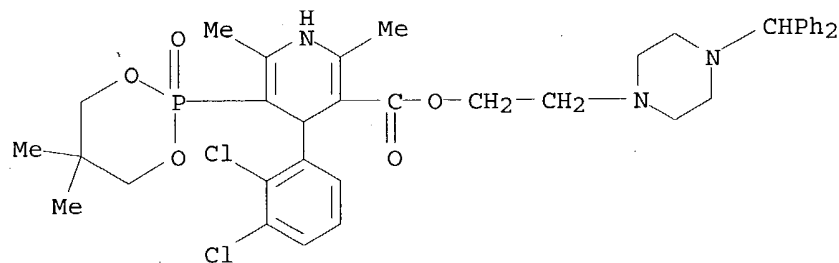
CI COM

SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

'1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 230944	A1	19870805	EP 1987-100602	19870119
EP 230944	B1	19900207		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 62169795	A2	19870725	JP 1986-11255	19860122
JP 06055751	B4	19940727		
US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116
AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
DD 276873	A5	19900314	DD 1987-299387	19870121
FI 8703503	A	19870812	FI 1987-3503	19870812
FI 85491	B	19920115		
FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814
DK 8704280	A	19870817	DK 1987-4280	19870817
DK 168821	B1	19940620		
NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 19 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111011-62-2 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 1-methyl-2-[phenyl(phenylmethyl)amino]ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 1-methyl-2-[phenyl(phenylmethyl)amino]ethyl ester, P-oxide, monohydrochloride

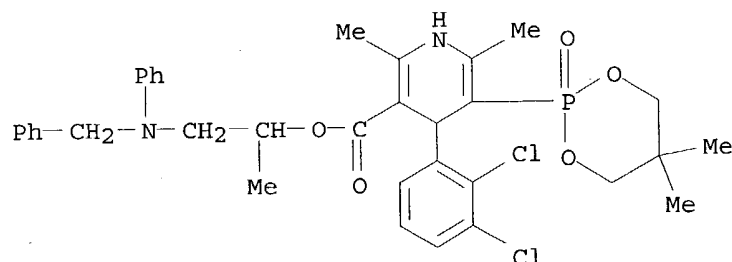
MF C35 H39 Cl2 N2 O5 P . Cl H

SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation)
 CRN (111011-73-5)



● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 230944	A1	19870805	EP 1987-100602	19870119
EP 230944	B1	19900207		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 62169795	A2	19870725	JP 1986-11255	19860122
JP 06055751	B4	19940727		
US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116
AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
DD 276873	A5	19900314	DD 1987-299387	19870121
FI 8703503	A	19870812	FI 1987-3503	19870812
FI 85491	B	19920115		
FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814

09/801,933

Thomas McKenzie

DK 8704280	A	19870817	DK 1987-4280	19870817
DK 168821	B1	19940620		
NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 20 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111011-61-1 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[4-[bis(4-fluorophenyl)methyl]-1-piperazinyl]ethyl ester, dihydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[4-[bis(4-fluorophenyl)methyl]-1-piperazinyl]ethyl ester, P-oxide, dihydrochloride

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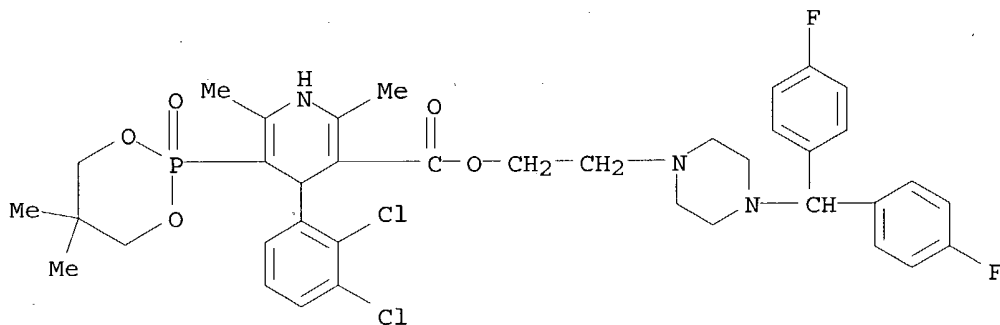
SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation)

CRN (111011-72-4)



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1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 230944	A1	19870805	EP 1987-100602	19870119
	EP 230944	B1	19900207		

R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE

JP 62169795	A2	19870725	JP 1986-11255	19860122
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US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116
AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
DD 276873	A5	19900314	DD 1987-299387	19870121
FI 8703503	A	19870812	FI 1987-3503	19870812
FI 85491	B	19920115		
FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814
DK 8704280	A	19870817	DK 1987-4280	19870817
DK 168821	B1	19940620		
NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 21 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111011-60-0 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-,
3-[4-(diphenylmethyl)-1-piperazinyl]propyl ester, dihydrochloride (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 3-[4-(diphenylmethyl)-1-piperazinyl]propyl ester, P-oxide, dihydrochloride

MF C39 H46 Cl2 N3 O5 P . 2 Cl H

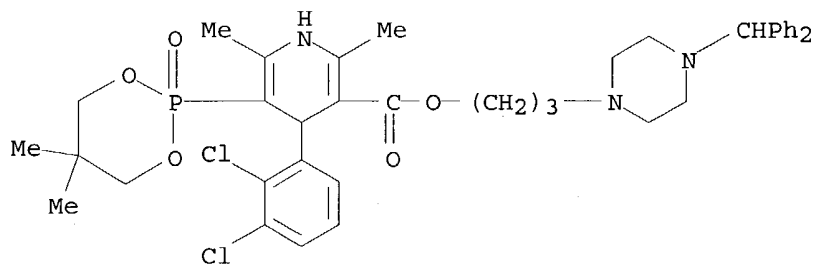
SR CA

LC STN Files: CA, CAPLUS

DT.CA CAPLUS document type: Patent

RL.P Roles from patents: PREP (Preparation)

CRN (111011-71-3)



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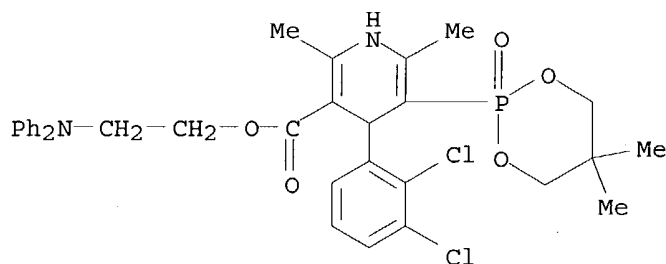
1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	JP 06055751	B4	19940727		
	US 4885284	A	19891205	US 1986-851158	19860414
	CA 1304379	A1	19920630	CA 1986-507085	19860418
	CN 87100286	A	19880113	CN 1987-100286	19870114
	CN 1016063	B	19920401		
	AU 8767635	A1	19870723	AU 1987-67635	19870116
	AU 589485	B2	19891012		
	AT 50263	E	19900215	AT 1987-100602	19870119
	WO 8704439	A1	19870730	WO 1987-JP32	19870120
	W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
	ZA 8700403	A	19870930	ZA 1987-403	19870120
	HU 44570	A2	19880328	HU 1987-768	19870120
	HU 196605	B	19881228		
	JP 63233992	A2	19880929	JP 1987-10230	19870120
	JP 06099458	B4	19941207		
	IL 81315	A1	19911121	IL 1987-81315	19870120
	DD 276873	A5	19900314	DD 1987-299387	19870121
	FI 8703503	A	19870812	FI 1987-3503	19870812
	FI 85491	B	19920115		
	FI 85491	C	19920427		
	SU 1586519	A3	19900815	SU 1987-4203193	19870814
	DK 8704280	A	19870817	DK 1987-4280	19870817
	DK 168821	B1	19940620		
	NO 8703453	A	19870817	NO 1987-3453	19870817
	NO 170728	B	19920817		
	NO 170728	C	19921125		

L7 ANSWER 22 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 111011-59-7 REGISTRY
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-(diphenylamino)ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-(diphenylamino)ethyl ester, P-oxide, monohydrochloride
 MF C33 H35 Cl2 N2 O5 P . Cl H
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: PREP (Preparation)
 CRN (111011-70-2)



● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 230944	A1	19870805	EP 1987-100602	19870119
EP 230944	B1	19900207		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 62169795	A2	19870725	JP 1986-11255	19860122
JP 06055751	B4	19940727		
US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116

AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
DD 276873	A5	19900314	DD 1987-299387	19870121
FI 8703503	A	19870812	FI 1987-3503	19870812
FI 85491	B	19920115		
FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814
DK 8704280	A	19870817	DK 1987-4280	19870817
DK 168821	B1	19940620		
NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 23 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 111011-57-5 REGISTRY
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,6-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 1-methyl-2-[phenyl(phenylmethyl)amino]ethyl ester, monohydrochloride (9CI)
 (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,6-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 1-methyl-2-[phenyl(phenylmethyl)amino]ethyl ester, P-oxide, monohydrochloride

MF C35 H39 Cl2 N2 O5 P . Cl H

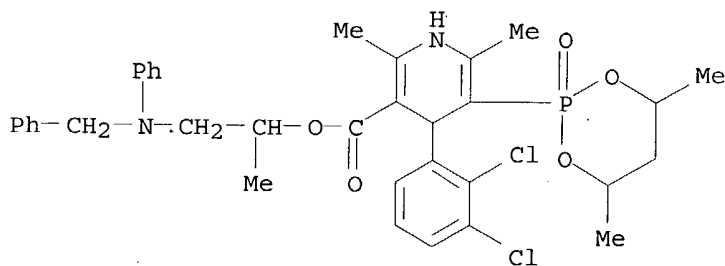
SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation)

CRN (111011-68-8)



● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 230944	A1	19870805	EP 1987-100602	19870119
EP 230944	B1	19900207		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 62169795	A2	19870725	JP 1986-11255	19860122
JP 06055751	B4	19940727		
US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116
AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
DD 276873	A5	19900314	DD 1987-299387	19870121
FI 8703503	A	19870812	FI 1987-3503	19870812
FI 85491	B	19920115		
FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814
DK 8704280	A	19870817	DK 1987-4280	19870817
DK 168821	B1	19940620		
NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 24 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111011-55-3 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 3-[4-[bis(4-fluorophenyl)methyl]-1-piperazinyl]propyl ester, dihydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 3-[4-[bis(4-fluorophenyl)methyl]-1-piperazinyl]propyl ester, P-oxide, dihydrochloride

MF C39 H44 Cl2 F2 N3 O5 P . 2 Cl H

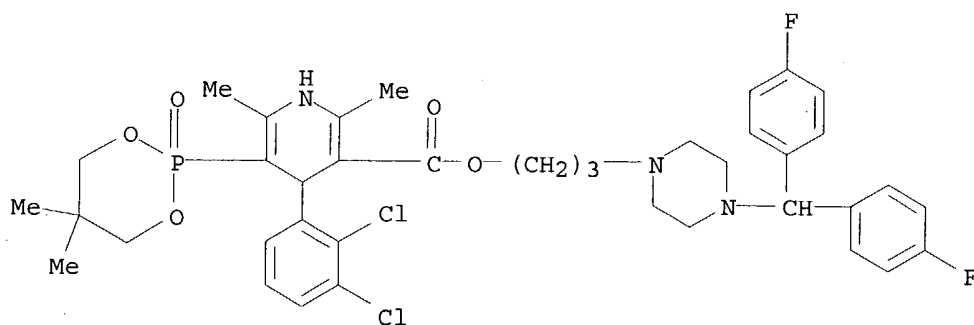
SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation)

CRN (111011-65-5)



● 2 HCl

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805; 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI EP 230944	A1	19870805	EP 1987-100602	19870119
EP 230944	B1	19900207		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 62169795	A2	19870725	JP 1986-11255	19860122
JP 06055751	B4	19940727		
US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116
AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
DD 276873	A5	19900314	DD 1987-299387	19870121
FI 8703503	A	19870812	FI 1987-3503	19870812
FI 85491	B	19920115		
FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814
DK 8704280	A	19870817	DK 1987-4280	19870817

09/801,933

Thomas McKenzie

DK 168821	B1	19940620		
NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 25 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 111011-54-2 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[4-(diphenylmethyl)-1-piperazinyl]ethyl ester, dihydrochloride (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[4-(diphenylmethyl)-1-piperazinyl]ethyl ester, P-oxide, dihydrochloride

MF C38 H44 Cl2 N3 O5 P . 2 Cl H

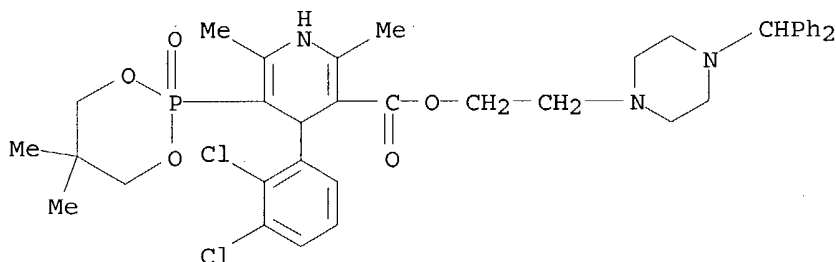
SR CA

LC STN Files: CA, CAPLUS

DT.CA CAPLUS document type: Patent

RL.P Roles from patents: PREP (Preparation)

CRN (111011-64-4)



● 2 HCl

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:237009 Preparation of dihydropyridine-5-phosphonic acid cyclic propylene esters as antihypertensives and vasodilators. Seto, Kiyotomo; Tanaka, Sakuya; Sakoda, Ryoza; Sakai, Tosinori; Masuda, Yukinori (Nissan Chemical Industries, Ltd., Japan). Eur. Pat. Appl. EP 230944 A1 19870805, 28 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-100602 19870119. PRIORITY: JP 1986-11255 19860122; JP 1986-12755 19860123; US 1986-851158 19860414; JP 1986-280159 19861125.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 230944	A1	19870805	EP 1987-100602	19870119
	EP 230944	B1	19900207		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 62169795	A2	19870725	JP 1986-11255	19860122
	JP 06055751	B4	19940727		

US 4885284	A	19891205	US 1986-851158	19860414
CA 1304379	A1	19920630	CA 1986-507085	19860418
CN 87100286	A	19880113	CN 1987-100286	19870114
CN 1016063	B	19920401		
AU 8767635	A1	19870723	AU 1987-67635	19870116
AU 589485	B2	19891012		
AT 50263	E	19900215	AT 1987-100602	19870119
WO 8704439	A1	19870730	WO 1987-JP32	19870120
W: BG, BR, DK, FI, HU, KR, NO, RO, SU				
ZA 8700403	A	19870930	ZA 1987-403	19870120
HU 44570	A2	19880328	HU 1987-768	19870120
HU 196605	B	19881228		
JP 63233992	A2	19880929	JP 1987-10230	19870120
JP 06099458	B4	19941207		
IL 81315	A1	19911121	IL 1987-81315	19870120
DD 276873	A5	19900314	DD 1987-299387	19870121
FI 8703503	A	19870812	FI 1987-3503	19870812
FI 85491	B	19920115		
FI 85491	C	19920427		
SU 1586519	A3	19900815	SU 1987-4203193	19870814
DK 8704280	A	19870817	DK 1987-4280	19870817
DK 168821	B1	19940620		
NO 8703453	A	19870817	NO 1987-3453	19870817
NO 170728	B	19920817		
NO 170728	C	19921125		

L7 ANSWER 26 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 107563-35-9 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-1-ethyl-1,4-dihydro-2,6-dimethyl-5-(2-oxido-1,3,2-dioxaphosphorinan-2-yl)-, methyl ester (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(1,3,2-dioxaphosphorinan-2-yl)-1-ethyl-1,4-dihydro-2,6-dimethyl-, methyl ester, P-oxide

FS 3D CONCORD

MF C20 H24 Cl2 N O5 P

SR CA

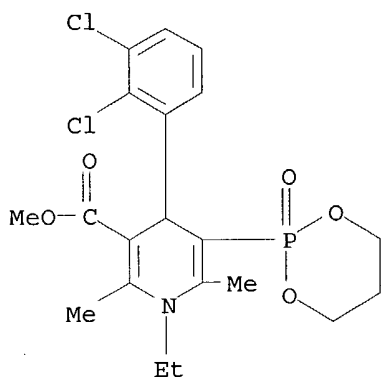
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT

(*File contains numerically searchable property data)

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 110:23995 Syntheses and antihypertensive activities of 1,4-dihydropyridine-5-phosphonate derivatives. III. Morita, Iwao; Haruta, Yuko; Tomita, Toshio; Tsuda, Masami; Kandori, Kazuhisa; Kise, Masahiro; Kimura, Kiyoshi (Res. Lab., Nippon Shinyaku Co., Ltd., Kyoto, 601, Japan). Chemical & Pharmaceutical Bulletin, 35(12), 4819-28 (English) 1987. CODEN: CPBTAL. ISSN: 0009-2363.

REFERENCE 2: 106:156672 Dihydropyridylphosphonates. Kimura, Kiyoshi; Morita, Iwao (Nippon Shinyaku Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 61257995 A2 19861115 Showa, 20 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1985-99041 19850509.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61257995	A2	19861115	JP 1985-99041	19850509
	JP 04055438	B4	19920903		

L7 ANSWER 27 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 107563-10-0 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,5-dimethyl-2-oxido-1,3,2-dioxaphospholan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester, hydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphospholane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,5-dimethyl-1,3,2-dioxaphospholan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester, P-oxide, hydrochloride

MF C28 H33 Cl2 N2 O5 P . x Cl H

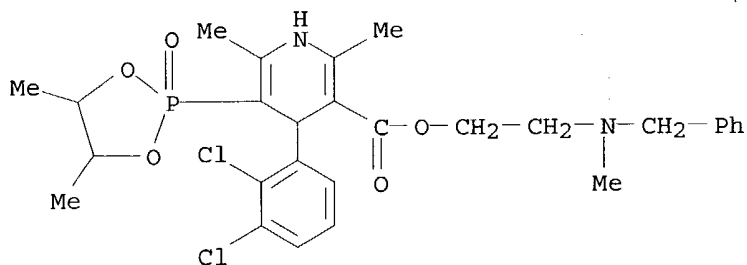
SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation)

CRN (107563-09-7)



●x HCl

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 106:156671 Dihydropyridylphosphonic acid ethylene ester derivatives. Seto, Kiyotomo; Kamikawaji, Masumasa; Sakota, Ryoza; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 61254596 A2 19861112 Showa, 10 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1985-95152 19850502.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61254596	A2	19861112	JP 1985-95152	19850502
	JP 04053871	B4	19920827		

L7 ANSWER 28 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 107563-09-7 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,5-dimethyl-2-oxido-1,3,2-dioxaphospholan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphospholane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(4,5-dimethyl-1,3,2-dioxaphospholan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester, P-oxide

FS 3D CONCORD

MF C28 H33 Cl2 N2 O5 P

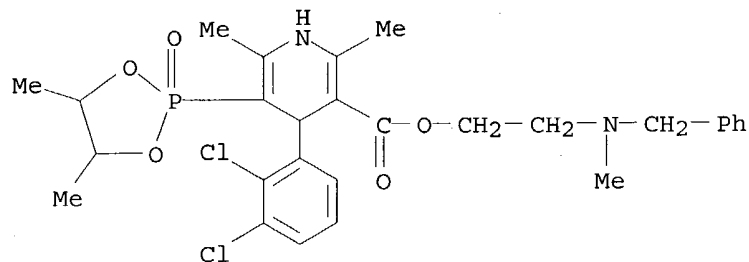
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SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 106:156671 Dihydropyridylphosphonic acid ethylene ester derivatives. Seto, Kiyotomo; Kamikawaji, Masumasa; Sakota, Ryoze; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 61254596 A2 19861112 Showa, 10 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1985-95152 19850502.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61254596	A2	19861112	JP 1985-95152	19850502
	JP 04053871	B4	19920827		

L7 ANSWER 29 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 106937-05-7 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(1,3-dimethyl-2-oxido-1,3,2-diazaphospholidin-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Diazaphospholidine, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(1,3-dimethyl-1,3,2-diazaphospholidin-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester, P-oxide

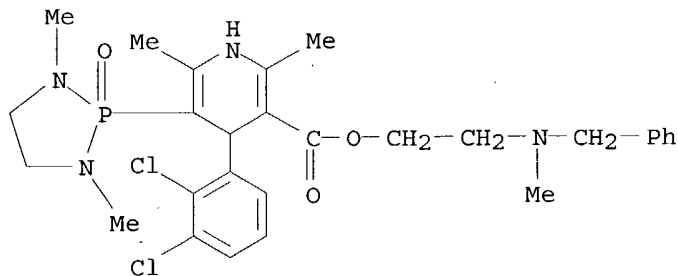
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SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: PREP (Preparation)



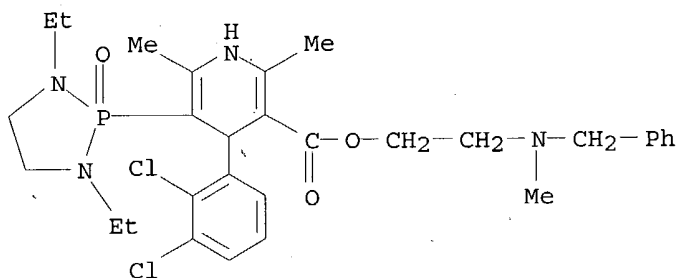
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 106:102546 Dihydropyridine-5-phosphonic acid diamide derivatives. Kamikawaji, Masuaki; Seto, Kiyotomo; Sakota, Ryoze; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 61210092 A2 19860918 Showa, 7 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1985-50796 19850314.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61210092	A2	19860918	JP 1985-50796	19850314
	JP 04053870	B4	19920827		

L7 ANSWER 30 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 106936-88-3 REGISTRY
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(1,3-diethyl-2-oxido-1,3,2-diazaphospholidin-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3,2-Diazaphospholidine, 3-pyridinecarboxylic acid deriv.
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(1,3-diethyl-1,3,2-diazaphospholidin-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester, P-oxide
 MF C30 H39 Cl2 N4 O3 P
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Patent
 RL.P Roles from patents: PREP (Preparation)



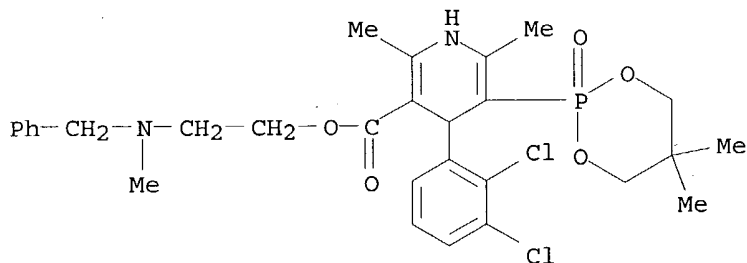
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 106:102546 Dihydropyridine-5-phosphonic acid diamide derivatives. Kamikawaji, Masuaki; Seto, Kiyotomo; Sakota, Ryoze; Tanaka, Sakuya (Nissan Chemical Industries, Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 61210092 A2 19860918 Showa, 7 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1985-50796 19850314.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61210092	A2	19860918	JP 1985-50796	19850314
	JP 04053870	B4	19920827		

L7 ANSWER 31 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 102098-28-2 REGISTRY
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.
 CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, 2-[methyl(phenylmethyl)amino]ethyl ester, P-oxide
 FS 3D CONCORD
 MF C29 H35 Cl2 N2 O5 P
 CI COM
 SR CA
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA CAplus document type: Journal; Patent
 RL.P Roles from patents: PREP (Preparation)
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);

RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 118:124668 Synthesis of 1,4-dihydropyridine-5-phosphonates and their calcium-antagonistic and antihypertensive activities: novel calcium-antagonist 2-[benzyl(phenyl)amino]ethyl 5-(5,5-dimethyl-2-oxo-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3-pyridinecarboxylate hydrochloride ethanol (NZ-105) and its crystal structure. Sakoda, Ryozi; Kamikawaji, Yoshimasa; Seto, Kiyotomo (Cent. Res. Inst., Nissan Chem. Ind. Co., Ltd., Funabashi, 274, Japan). Chemical & Pharmaceutical Bulletin, 40(9), 2362-9 (English) 1992. CODEN: CPBTAL. ISSN: 0009-2363.

REFERENCE 2: 109:93169 Synthesis and antihypertensive activities of 1,4-dihydropyridine-5-phosphonate derivatives. II. Morita, Iwao; Kunitomo, Katsutoshi; Tsuda, Masami; Tada, Shinichi; Kise, Masahiro; Kimura, Kiyoshi (Res. Lab., Nippon Shinyaku Co., Ltd., Kyoto, 601, Japan). Chemical & Pharmaceutical Bulletin, 35(10), 4144-54 (English) 1987. CODEN: CPBTAL. ISSN: 0009-2363.

REFERENCE 3: 104:207449 Pyridyldioxaphosphorinane derivatives. Kimura, Kiyoshi; Morita, Iwao (Nippon Shinyaku Co., Ltd., Japan). Eur. Pat. Appl. EP 159040 A2 19851023, 58 pp. DESIGNATED STATES: R: AT, CH, DE, LI. (English). CODEN: EPXXDW. APPLICATION: EP 1985-104723 19850418. PRIORITY: JP 1984-79560 19840419.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 159040	A2	19851023	EP 1985-104723	19850418
	EP 159040	A3	19880817		
	EP 159040	B1	19921209		
	R: AT, CH, DE, LI				
	JP 60248693	A2	19851209	JP 1984-79560	19840419
	JP 02059835	B4	19901213		
	GB 2157695	A1	19851030	GB 1985-7897	19850326
	NL 8500909	A	19851118	NL 1985-909	19850328
	FR 2563222	A1	19851025	FR 1985-5174	19850404
	FR 2563222	B1	19890609		
	ZA 8502591	A	19860129	ZA 1985-2591	19850404
	BE 902210	A1	19851017	BE 1985-214853	19850417
	SE 8501882	A	19851020	SE 1985-1882	19850417

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SE 464028	B	19910225		
SE 464028	C	19910627		
US 5036059	A	19910730	US 1985-724019	19850417
AU 8541405	A1	19851024	AU 1985-41405	19850418
AU 570552	B2	19880317		
ES 542378	A1	19860401	ES 1985-542378	19850418
AT 83237	E	19921215	AT 1985-104723	19850418

L7 ANSWER 32 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 102098-27-1 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-2-oxido-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, methyl ester
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, methyl ester, P-oxide

FS 3D CONCORD

MF C20 H24 Cl2 N O5 P

SR CA

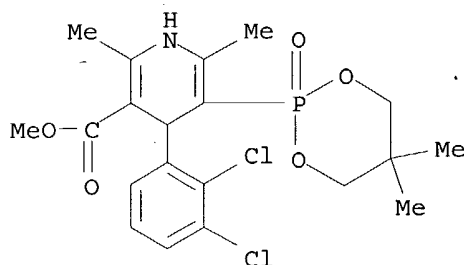
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL

(*File contains numerically searchable property data)

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation)

RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);
USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 109:93169 Synthesis and antihypertensive activities of 1,4-dihydropyridine-5-phosphonate derivatives. II. Morita, Iwao; Kunitomo, Katsutoshi; Tsuda, Masami; Tada, Shinichi; Kise, Masahiro; Kimura, Kiyoshi (Res. Lab., Nippon Shinyaku Co., Ltd., Kyoto, 601, Japan). Chemical & Pharmaceutical Bulletin, 35(10), 4144-54 (English) 1987. CODEN: CPBTAL. ISSN: 0009-2363.

REFERENCE 2: 104:207449 Pyridyldioxaphosphorinane derivatives. Kimura, Kiyoshi; Morita, Iwao (Nippon Shinyaku Co., Ltd., Japan). Eur. Pat. Appl. EP 159040 A2 19851023, 58 pp. DESIGNATED STATES: R: AT, CH, DE, LI. (English). CODEN: EPXXDW. APPLICATION: EP 1985-104723 19850418. PRIORITY: JP 1984-79560 19840419.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 159040	A2	19851023	EP 1985-104723	19850418
	EP 159040	A3	19880817		
	EP 159040	B1	19921209		
	R: AT, CH, DE, LI				
	JP 60248693	A2	19851209	JP 1984-79560	19840419
	JP 02059835	B4	19901213		
	GB 2157695	A1	19851030	GB 1985-7897	19850326
	NL 8500909	A	19851118	NL 1985-909	19850328
	FR 2563222	A1	19851025	FR 1985-5174	19850404
	FR 2563222	B1	19890609		
	ZA 8502591	A	19860129	ZA 1985-2591	19850404
	BE 902210	A1	19851017	BE 1985-214853	19850417
	SE 8501882	A	19851020	SE 1985-1882	19850417
	SE 464028	B	19910225		
	SE 464028	C	19910627		
	US 5036059	A	19910730	US 1985-724019	19850417
	AU 8541405	A1	19851024	AU 1985-41405	19850418
	AU 570552	B2	19880317		
	ES 542378	A1	19860401	ES 1985-542378	19850418
	AT 83237	E	19921215	AT 1985-104723	19850418

L7 ANSWER 33 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 102098-26-0 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-1,4-dihydro-2,6-dimethyl-5-(2-oxido-1,3,2-dioxaphosphorinan-2-yl)-, ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, ethyl ester, P-oxide

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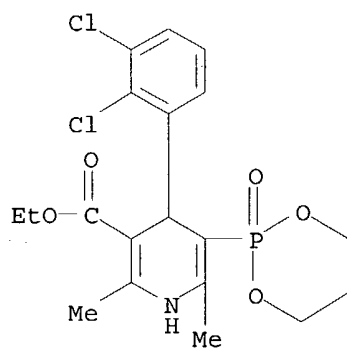
MF C19 H22 Cl2 N O5 P

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAPLUS document type: Patent

RL.P Roles from patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 104:207449 Pyridyldioxaphosphorinane derivatives. Kimura, Kiyoshi; Morita, Iwao (Nippon Shinyaku Co., Ltd., Japan). Eur. Pat. Appl.

EP 159040 A2 19851023, 58 pp. DESIGNATED STATES: R: AT, CH, DE, LI.
(English). CODEN: EPXXDW. APPLICATION: EP 1985-104723 19850418.
PRIORITY: JP 1984-79560 19840419.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 159040	A2	19851023	EP 1985-104723	19850418
	EP 159040	A3	19880817		
	EP 159040	B1	19921209		
	R: AT, CH, DE, LI				
	JP 60248693	A2	19851209	JP 1984-79560	19840419
	JP 02059835	B4	19901213		
	GB 2157695	A1	19851030	GB 1985-7897	19850326
	NL 8500909	A	19851118	NL 1985-909	19850328
	FR 2563222	A1	19851025	FR 1985-5174	19850404
	FR 2563222	B1	19890609		
	ZA 8502591	A	19860129	ZA 1985-2591	19850404
	BE 902210	A1	19851017	BE 1985-214853	19850417
	SE 8501882	A	19851020	SE 1985-1882	19850417
	SE 464028	B	19910225		
	SE 464028	C	19910627		
	US 5036059	A	19910730	US 1985-724019	19850417
	AU 8541405	A1	19851024	AU 1985-41405	19850418
	AU 570552	B2	19880317		
	ES 542378	A1	19860401	ES 1985-542378	19850418
	AT 83237	E	19921215	AT 1985-104723	19850418

L7 ANSWER 34 OF 34 REGISTRY COPYRIGHT 2004 ACS on STN

RN 102098-25-9 REGISTRY

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-1,4-dihydro-2,6-dimethyl-5-(2-oxido-1,3,2-dioxaphosphorinan-2-yl)-, methyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3,2-Dioxaphosphorinane, 3-pyridinecarboxylic acid deriv.

CN 3-Pyridinecarboxylic acid, 4-(2,3-dichlorophenyl)-5-(1,3,2-dioxaphosphorinan-2-yl)-1,4-dihydro-2,6-dimethyl-, methyl ester, P-oxide

FS 3D CONCORD

MF C18 H20 Cl2 N O5 P

SR CA

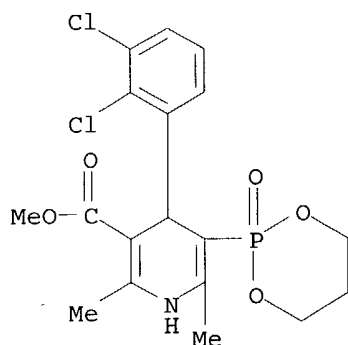
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL

(*File contains numerically searchable property data)

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation)

RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 109:93169 Synthesis and antihypertensive activities of 1,4-dihydropyridine-5-phosphonate derivatives. II. Morita, Iwao; Kunimoto, Katsutoshi; Tsuda, Masami; Tada, Shinichi; Kise, Masahiro; Kimura, Kiyoshi (Res. Lab., Nippon Shinyaku Co., Ltd., Kyoto, 601, Japan). Chemical & Pharmaceutical Bulletin, 35(10), 4144-54 (English) 1987. CODEN: CPBTAL. ISSN: 0009-2363.

REFERENCE 2: 104:207449 Pyridyldioxaphosphorinane derivatives. Kimura, Kiyoshi; Morita, Iwao (Nippon Shinyaku Co., Ltd., Japan). Eur. Pat. Appl. EP 159040 A2 19851023, 58 pp. DESIGNATED STATES: R: AT, CH, DE, LI. (English). CODEN: EPXXDW. APPLICATION: EP 1985-104723 19850418. PRIORITY: JP 1984-79560 19840419.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 159040	A2	19851023	EP 1985-104723	19850418
EP 159040	A3	19880817		
EP 159040	B1	19921209		
R: AT, CH, DE, LI				
JP 60248693	A2	19851209	JP 1984-79560	19840419
JP 02059835	B4	19901213		
GB 2157695	A1	19851030	GB 1985-7897	19850326
NL 8500909	A	19851118	NL 1985-909	19850328
FR 2563222	A1	19851025	FR 1985-5174	19850404
FR 2563222	B1	19890609		
ZA 8502591	A	19860129	ZA 1985-2591	19850404
BE 902210	A1	19851017	BE 1985-214853	19850417
SE 8501882	A	19851020	SE 1985-1882	19850417
SE 464028	B	19910225		
SE 464028	C	19910627		
US 5036059	A	19910730	US 1985-724019	19850417
AU 8541405	A1	19851024	AU 1985-41405	19850418
AU 570552	B2	19880317		
ES 542378	A1	19860401	ES 1985-542378	19850418
AT 83237	E	19921215	AT 1985-104723	19850418

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Thomas McKenzie

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